PATENT COOPERATION TREATY PCT

REC'D 1 1 OCT 2005

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FP2438/DP	FOR FURTHER ACT	TION	See Form PCT/IPEA/416				
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)				
PCT/SG2004/000361	1 November 2004		19 November 2003				
International Patent Classification (IPC) or	national classification an	d IPC					
Int. Cl. 7 A61B 6/03							
Applicant							
AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH et al							
<u> </u>							
This report is the international prelimina Authority under Article 35 and transmitt	ry examination report, ead to the applicant accor	stablished by this Inte	rnational Preliminary Examining				
2. This REPORT consists of a total of 4	-,-	•					
3. This report is also accompanied by ANN	*						
a. X (sent to the applicant and to the		total of 3 sheets, as	s follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or table related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications relating							
X Box No. I Basis of the report	t		•				
Box No. II Priority	Box No. II Priority						
Box No. III Non-establishmen	t of opinion with regard	to novelty, inventive	step and industrial applicability				
X Box No. IV Lack of unity of in	vention						
X Box No. V Reasoned statement citations and explain	·						
Box No. VI Certain documents	s cited						
Box No. VII Certain defects in	Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application							
Date of submission of the demand Date of completion of the report							
15 September 2005		8 September 2005	and roport				
Name and mailing address of the IPEA/AU		uthorized Officer					
AUSTRALIAN PATENT OFFICE			·				
PO BOX 200, WODEN ACT 2606, AUSTRAL E-mail address: pct@ipaustralia.gov.au	IA X	AVIER GISZ					
Facsimile No. (02) 6285 3929	T	Telephone No. (02) 6283 2064					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SG2004/000361

Bo	x No. I		the report			
1.	With a otherv	regard to the lar wise indicated u	guage, this report is based on the international application in the language in which it was filed, unless order this item.			
		This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:				
		internation	nal search (under Rules 12.3 and 23.1 (b))			
	:	publicatio	n of the international application (under Rule 12.4)			
		internation	nal preliminary examination (under Rules 55.2 and/or 55.3)			
2.	furnisi filed"	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
	=	•	application as originally filed/furnished			
	X t	he description:				
	-	•	pages 1-16 · as originally filed/furnished			
			pages* received by this Authority on with the letter of pages* received by this Authority on with the letter of			
	X tl	he claims:				
	_		pages as originally filed/furnished			
•			pages* as amended (together with any statement) under Article 19			
		٠	pages* 17-19 received by this Authority on 15 September 2005 with the letter of 15 September 2005			
	X th	he drawings:	pages* received by this Authority on with the letter of			
	<u></u>	ac mawnigs.	pages 1/12 – 12/12 as originally filed/furnished			
			pages* received by this Authority on with the letter of			
			pages* received by this Authority on with the letter of			
	a	sequence listing	and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.			
3.	Т	he amendments	have resulted in the cancellation of:			
		the descr	ription, pages			
		the clain	- · · · ·			
		<u></u>	ings, sheets/figs			
			ence listing (specify):			
		<u>=</u>	(s) related to the sequence listing (specify):			
4.	m	his report has be	then established as if (some of) the amendments annexed to this report and listed below had not been have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule			
	^					
		==	iption, pages			
		the claim				
		=	ings, sheets/figs			
			nce listing (specify):			
		any table	(s) related to the sequence listing (specify):			
ı.	TC+-	•				
	If item 4 applies, some or all of those sheets may be marked "superseded."					

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International application No.

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Box No. IV		V	Lack of unity of invention				
1.		In resp	conse to the invitation to restrict or pay additional fees the applicant has:				
			restricted the claims.				
			paid additional fees.				
			paid additional fees under protest.				
			neither restricted nor paid additional fees.				
2.	X		Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, invite the applicant to restrict or pay additional fees.				
3.	This .	Author	ity considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:				
		compl	ied with.				
	X	not co	mplied with for the following reasons:				
		relate	nternational application does not comply with the requirements of unity of invention because it does not to one invention or to a group of inventions so linked as to form a single general inventive concept. In ag to this conclusion the International Searching Authority has found that there are different inventions lows:				
		1.	Claims 1-3 are directed to a method of estimating the position of a brain landmark including the steps of determining whether a region of a midsagittal radiological image includes a group of pixels having intensity values in defined range. It is considered that determining whether a group of pixels have an intensity in a defined range comprises a first "special technical feature".				
		2.	Claims 4-13 are directed to a method of estimating the position of AC and PC landmarks including the steps of using midsagittal radiological images to estimate the position of the AC and PC landmarks and generating axial radiological images and using these images to improve the estimate of the position of the AC and PC landmarks. It is considered that forming axial radiological images from midsagittal images and using these to improve the estimate of the position of the AC and PC landmarks comprises a second special technical feature.				
	Since the abovementioned groups of claims do not share any of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept, a priori.						
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4. Consequently, this report has been established in respect of the following parts of the international application:							
		X	all parts.				
		t	he parts relating to claims Nos.				

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International application No.

PCT/SG2004/000361

ox No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

. Statement		
Novelty (N)	Claims 1-13	YES
	Claims	NO
Inventive step (IS)	Claims 1-13	YES
• ` ` `	Claims	NO
Industrial applicability (IA)	Claims 1-13	YES
••	Claims	NO

Citations and explanations (Rule 70.7)

Claims 1-13 meet the criteria set forth in PCT Articles 33(2) and 33(3) for novelty and inventive step. The prior art published before the priority date does not disclose or obviously suggest a method of estimating the position of brain landmarks as presently defined in the claims.